

generating a back-end debugger program portion from the formal specification.

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8. A method of Claim 1 further comprising enabling a communication protocol between the front-end debugger program and the back-end debugger program, wherein the communication protocol is defined by the formal specification

Sub 94  
12. A method for automatically generating front-end debugger interface code and back-end debugger agent interface code that are both compatible with a communication protocol, the method comprising:

[writing] creating a formal specification file that contains a description of a communication protocol between the front-end debugger code and the back-end debugger agent code;

inputting the formal specification file into a code generator;

utilizing the code generator to parse [parsing] the formal specification;

generating the front-end debugger interface code from the formal specification; and

generating the back-end debugger agent interface code from the formal specification.

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15. A computer readable medium including computer program code for automatically generating front-end debugger interface code and back-end debugger interface code that are both compatible with a communication protocol, the computer readable medium comprising:

computer program code for inputting a formal protocol specification into a code generator;

computer program code for utilizing the code generator to parse [parsing] the formal protocol specification;

computer code for generating front-end debugger interface computer code from the formal specification; and